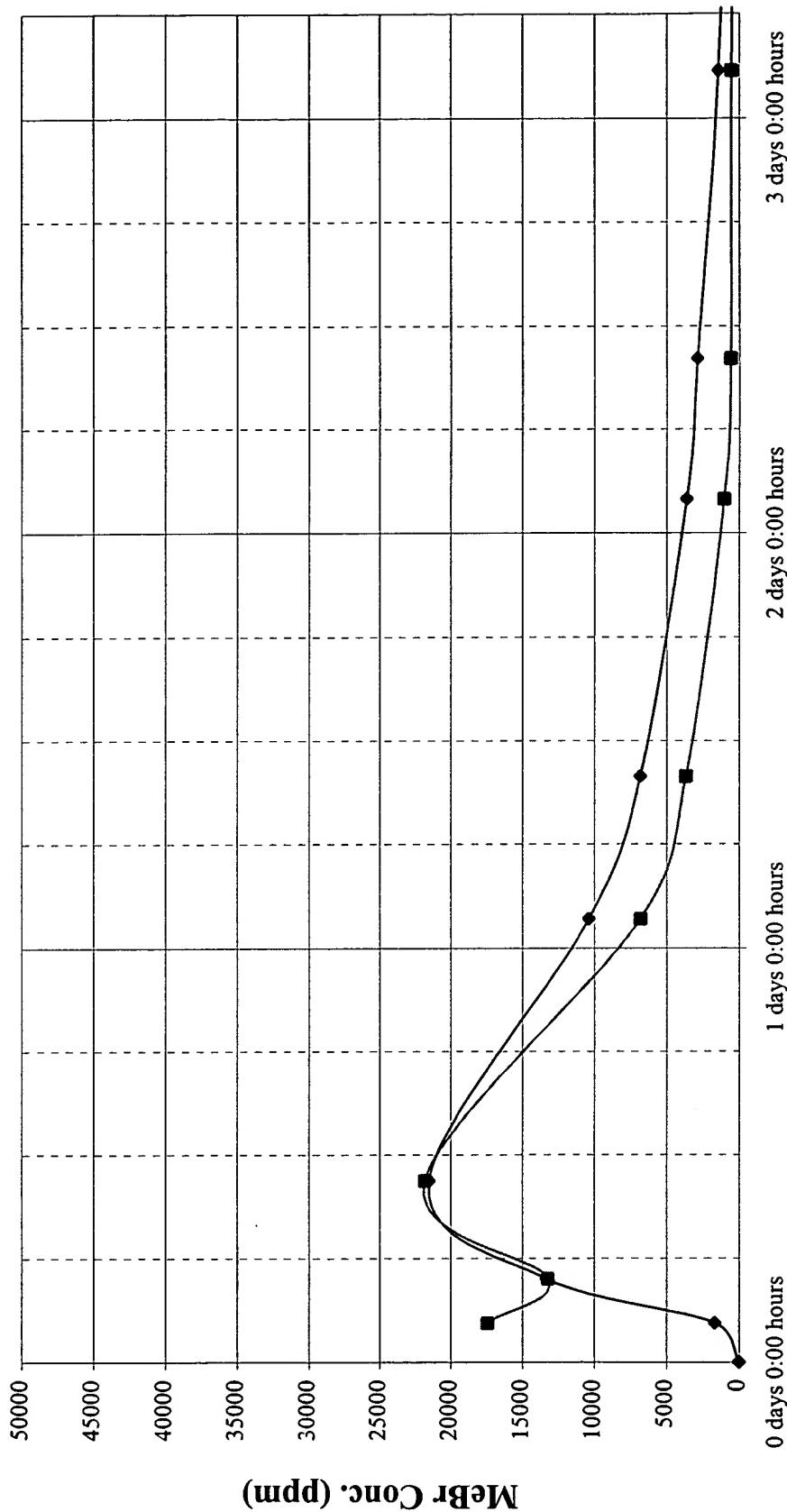


MeBr Soil Gas Conc. vs. Time
Broadcast and Drip Treatment at 12" Depth Adjusted for Film Permeability

—♦— Drip Center 12" Depth —■— Tarp Broadcast Center 12" Depth



Time

FIG. 1

MeBr Headspace Conc. vs. Time
Run #1 MeBr + ATLOX Surfactant + Water

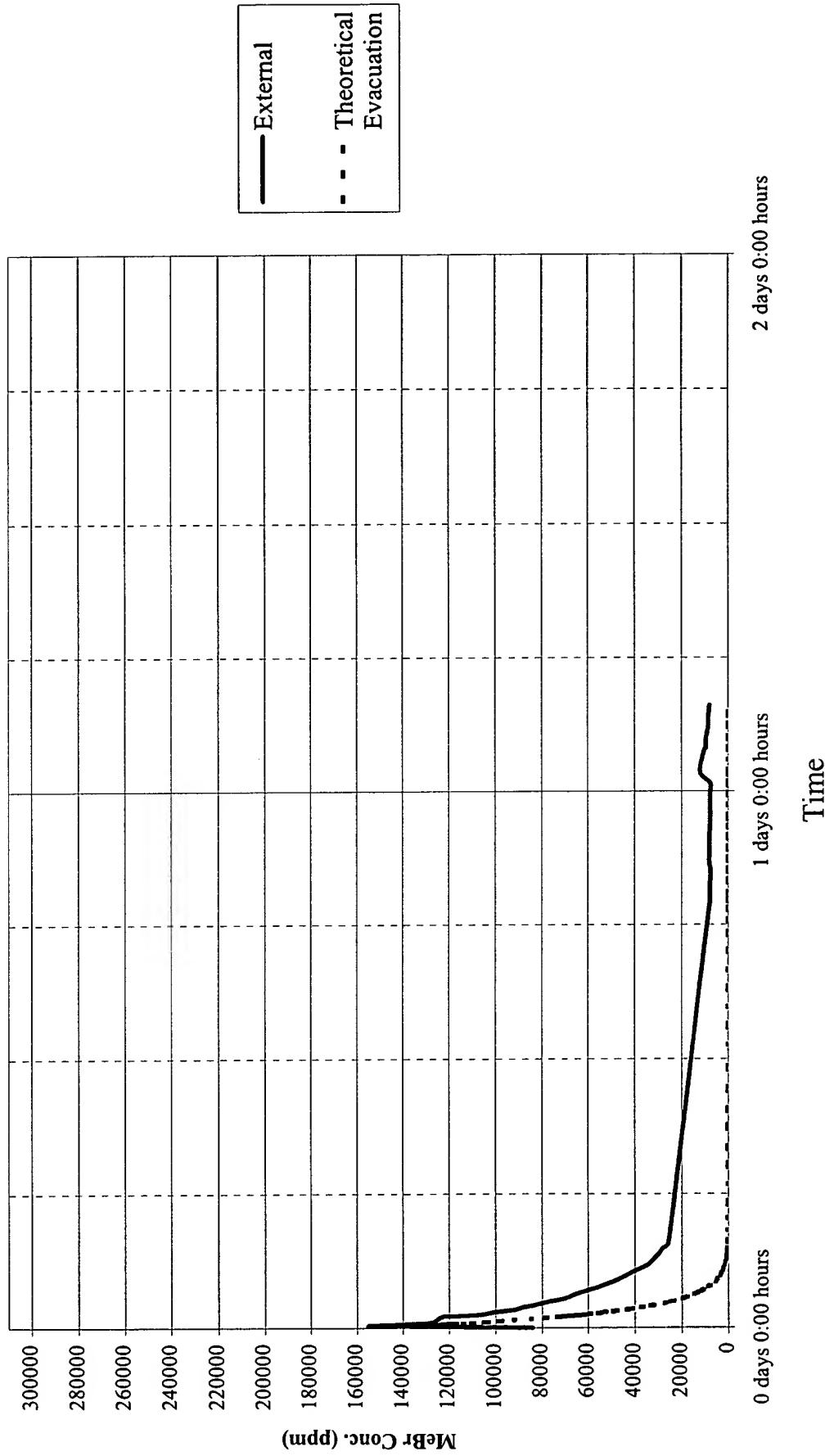


FIG. 2a

MeBr Headspace Conc. vs. Time
Run #2 MeBr + Water

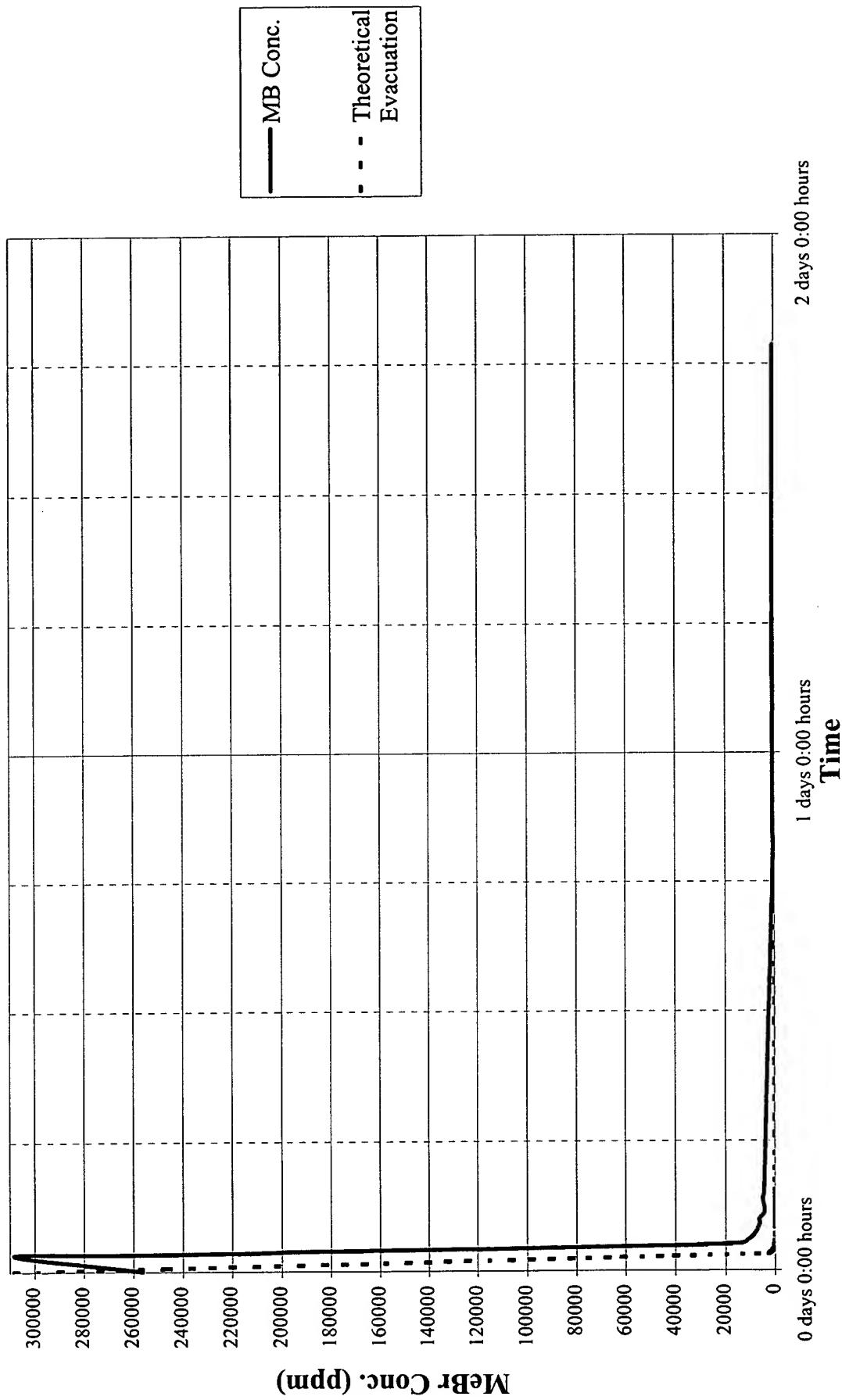


FIG. 2b

MeBr Headspace Conc. vs. Time
Run #3 & #4 MeBr With and Without ATI_{LOX} Surfactant

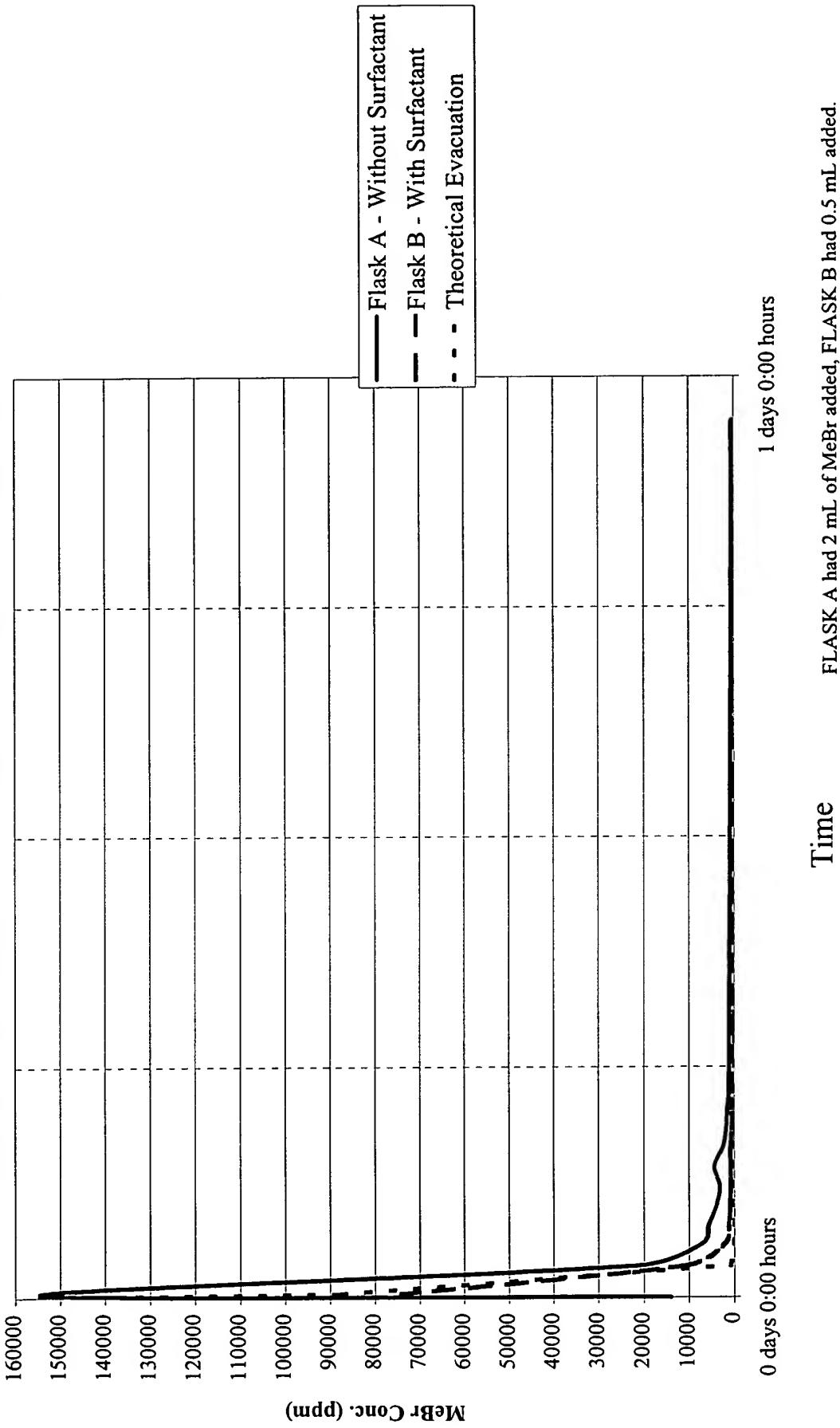


FIG. 2c

Treatment of Different Types of Tubing with Chloropicrin Formulation

Tubing Type	Immediate Rx	Wall Thickness After 15 Hours	Elasticity/Strength After 15 Hours	General Appearance Integrity After 15 Hours
Black Seamless Latex	None	No change	Maintained	No effect
FEP Teflon	None	No change	Maintained	No effect
Nalgene 860 Tissue Culture Grade	None	No change	Maintained	Sticky
Manosil	None	No change	Maintained	No effect
Tygon R3603	None	Reduced thickness	Reduced slightly	Appeared melted
Nalgene 180 Premium PVC	None	Reduced thickness	Reduced slightly	Slightly opaque, appeared melted

FIG. 3

**Nematode Efficacy - Chloropicrin Drip Application
of Various EC Percentages
Summary of Results**

Cylinder #	Nematode Species ^a						Adjusted Counts ^b
	Root Knot (Meloiodyne)	Dagger (Xiphinema)	Citrus	Pin	Root Knot (Meloiodyne)	Dagger (Xiphinema)	
1	5	3	168		15	9	504
2	22	4	216	28	66	12	648
3	1	2	456		3	6	1368
4	49		338	9	147	0	1014
5	0	7			0	0	21
6	23	40	4	69	0	0	120
7	112	80	14	336	0	240	42
8	29	79		87	0	237	0
9	0		114	0	0	0	342
10	16	72		48	0	0	216
11	22		160	66	0	480	0
12	29		87	87	0	0	261
13	115		136	345	0	408	0
14	16	30		48	0	0	90
15	22	31		66	0	0	93
16	79		82	237	0	246	0
17	15	17		45	0	51	0
18	30		81	90	0	243	0
19	69		109	207	0	327	0
20	26		68	78	0	204	0

§ 33% extraction efficiency, measured values multiplied by 3
 No counts were obtained for *Ring nematode* statistical analysis.

FIG. 4

Chloropicrin EC - Lab Tests for Weed Seed Mortality

PIGWEEED

Seed: *Amaranthus retroflexus*

Treatment		Treatment Date = 10/28/1999								Treatment Date = 11/05/1999								Treatment Date = 11/09/1999									
		Elapsed Time from Treatment = 8 Days				Elapsed Time from Treatment = 12 Days				Elapsed Time from Treatment = 12 Days				Elapsed Time from Treatment = 12 Days				Elapsed Time from Treatment = 12 Days				Elapsed Time from Treatment = 12 Days					
Seed Age	Treatment Solution	1st Count				2nd Count				1st Count				2nd Count				1st Count				2nd Count					
		Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4		
NEW SEED	Control 0 ppm, 0% Emulsifier	26	29	15	20	75	66	55	75	74%	71%	85%	80%	78%	78%	75%	75%	34%	45%	23%	23%	32%	0%	0%	0%	0%	
NEW SEED	0 ppm, 5% Emulsifier	13	9	10	14	15	16	21	32	87%	91%	90%	86%	89%	89%	85%	85%	84%	79%	79%	79%	79%	79%	79%	79%	79%	
NEW SEED	0 ppm, 50% Emulsifier	6	2	12	4	10	4	19	6	94%	98%	88%	96%	94%	94%	90%	90%	96%	81%	94%	90%	90%	90%	90%	90%	90%	
NEW SEED	500 ppm, 5% Emulsifier	0	3	1	4	0	3	1	4	100%	97%	99%	98%	100%	99%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	98%	
NEW SEED	500 ppm, 50% Emulsifier	0	2	0	2	3	6	3	7	7%	98%	100%	98%	76%	76%	97%	94%	97%	97%	93%	95%	95%	95%	95%	95%	95%	95%
NEW SEED	1000 ppm, 5% Emulsifier	4	1	1	0	9	2	1	1	96%	99%	99%	99%	100%	99%	91%	98%	99%	99%	99%	99%	97%	97%	97%	97%	95%	
NEW SEED	1000 ppm, 50% Emulsifier	0	0	0	0	0	0	0	0	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%		
OLD SEED																											
OLD SEED	Control 0 ppm, 0% Emulsifier																										
OLD SEED	0 ppm, 5% Emulsifier																										
OLD SEED	0 ppm, 50% Emulsifier																										
OLD SEED	500 ppm, 5% Emulsifier																										
OLD SEED	500 ppm, 50% Emulsifier																										
OLD SEED	1000 ppm, 5% Emulsifier																										
OLD SEED	1000 ppm, 50% Emulsifier																										

NEW SEED

Anova: Single Factor

SUMMARY

Groups	Count	Sum	Average	Variance
Row 1	4	1.23	0.325	0.000025
Row 2	4	3.16	0.79	0.0005687
Row 3	4	3.61	0.8025	0.004425
Row 4	4	3.92	0.88	0.0003333
Row 5	4	3.81	0.8525	0.000425
Row 6	4	3.87	0.8675	0.00149167
Row 7	4	1	0	0

ANOVA	Source of Variation	SS	df	MS	F	P-value	F crit
	Between Groups	1.3926	6	0.2321	74.6416539	4.547E-13	5.8807827
	Within Groups	0.0653	21	0.00310585			
Total		1.4579	27				

HIGHLY SIGNIFICANT DIFFERENCE @ 99%

FIG. 5a

Percent Mortality of New Weed Seeds Over Control
Pigweed

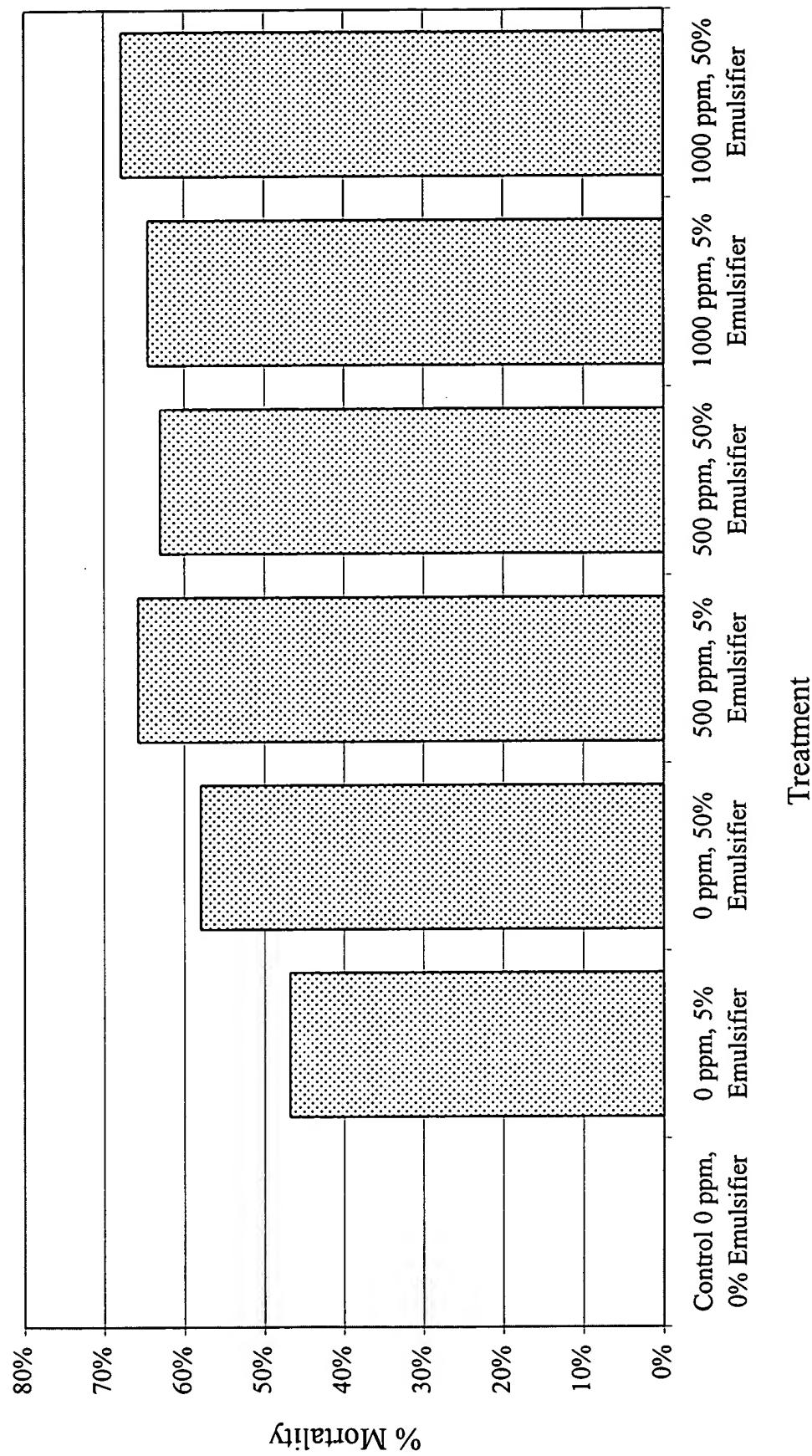


FIG. 5b

Chloropicrin EC - Lab Tests for Weed Seed Mortality
WHITE SWEET
CLOVER

Treatment	Treatment Date = 10/28/1999	Number of Seeds/Dish = 100	Seed Germination Counts												(% Mortality)						
			1st Count				2nd Count				1st Count				2nd Count				1st Count		
			Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	at 8 Days	at 112 Days	
Seed Age	Treatment Solution																		Mean	Mean	
NEW SEED	Control 0 ppm, 0% Emulsifier	4	11	15	6	4	11	15	6	96%	85%	94%	91%	96%	89%	85%	94%	91%	91%	91%	
NEW SEED	0 ppm, 5% Emulsifier	10	7	3	9	10	7	3	9	90%	93%	97%	91%	93%	90%	93%	97%	91%	93%	93%	
NEW SEED	0 ppm, 50% Emulsifier	5	4	7	5	6	4	7	5	95%	96%	93%	95%	95%	94%	96%	93%	95%	95%	95%	
NEW SEED	500 ppm, 5% Emulsifier	5	3	4	1	5	3	6	2	95%	97%	96%	97%	97%	95%	97%	94%	97%	96%	96%	
NEW SEED	500 ppm, 50% Emulsifier	5	2	1	2	7	2	1	5	95%	98%	99%	98%	98%	93%	98%	99%	95%	96%	96%	
NEW SEED	1000 ppm, 5% Emulsifier	1	2	3	0	1	4	3	0	99%	98%	97%	100%	99%	96%	97%	100%	98%	98%	97%	
NEW SEED	1000 ppm, 50% Emulsifier	0	2	0	3	0	13	1	5	100%	98%	100%	97%	99%	100%	87%	99%	93%	95%	95%	4%
<hr/>																					
OLD SEED	Control 0 ppm, 0% Emulsifier	15	11	4	9	30	25	11	27	85%	89%	96%	91%	90%	70%	75%	89%	73%	73%	71%	3%
OLD SEED	0 ppm, 5% Emulsifier	5	7	24	33	8	8	26	39	95%	93%	76%	67%	83%	92%	92%	74%	61%	80%	0%	0%
OLD SEED	0 ppm, 50% Emulsifier	4	10	13	18	6	12	24	27	96%	90%	87%	82%	88%	94%	88%	76%	71%	83%	83%	3%
OLD SEED	500 ppm, 5% Emulsifier	7	2	3	9	7	2	5	14	93%	98%	97%	91%	95%	93%	98%	95%	86%	93%	93%	13%
OLD SEED	500 ppm, 50% Emulsifier	11	7	3	5	25	15	6	9	89%	93%	97%	95%	94%	75%	85%	94%	91%	86%	76%	7%
OLD SEED	1000 ppm, 5% Emulsifier	23	3	0	12	23	3	0	12	77%	100%	88%	91%	77%	100%	88%	91%	100%	88%	91%	11%
OLD SEED	1000 ppm, 50% Emulsifier	0	12	3	16	0	18	4	26	100%	88%	97%	84%	92%	100%	82%	96%	74%	88%	88%	8%

No Significance

OLD SEED

Anova: Single Factor

Groups	Count	Sum	Average	Variance	ANOVA	
					Groups	Count
Row 1	4	3.64	0.91	0.02248867	Row 1	4
Row 2	4	3.71	0.9275	0.00085833	Row 2	4
Row 3	4	3.76	0.945	0.00186867	Row 3	4
Row 4	4	3.84	0.96	0.00033333	Row 4	4
Row 5	4	3.85	0.9625	0.00075833	Row 5	4
Row 6	4	3.92	0.98	0.00033333	Row 6	4
Row 7	4	3.81	0.9625	0.00349167	Row 7	4

No Significance

NEW SEED

Anova: Single Factor

Groups	Count	Sum	Average	Variance	ANOVA	
					Groups	Count
Row 1	4	3.64	0.91	0.02248867	Between Groups	0.013085
Row 2	4	3.71	0.9275	0.00085833	Within Groups	0.02795
Row 3	4	3.76	0.945	0.00186867	Total	0.040835
Row 4	4	3.84	0.96	0.00033333		
Row 5	4	3.85	0.9625	0.00075833		
Row 6	4	3.92	0.98	0.00033333		
Row 7	4	3.81	0.9625	0.00349167		

Source of Variation	SS	df	MS	F	P-value	df	MS	F	P-value
Between Groups	0.013085	6	0.002181	1.7943	0.14986003	6	0.013082	1.279861017	0.30875
Within Groups	0.02795	21	0.0012155			21	0.010676		2.572712
Total	0.040835	27				Total	0.306171		27

FIG. 6a

% Mortality of New Weed Seeds Over Control White Sweet Clover

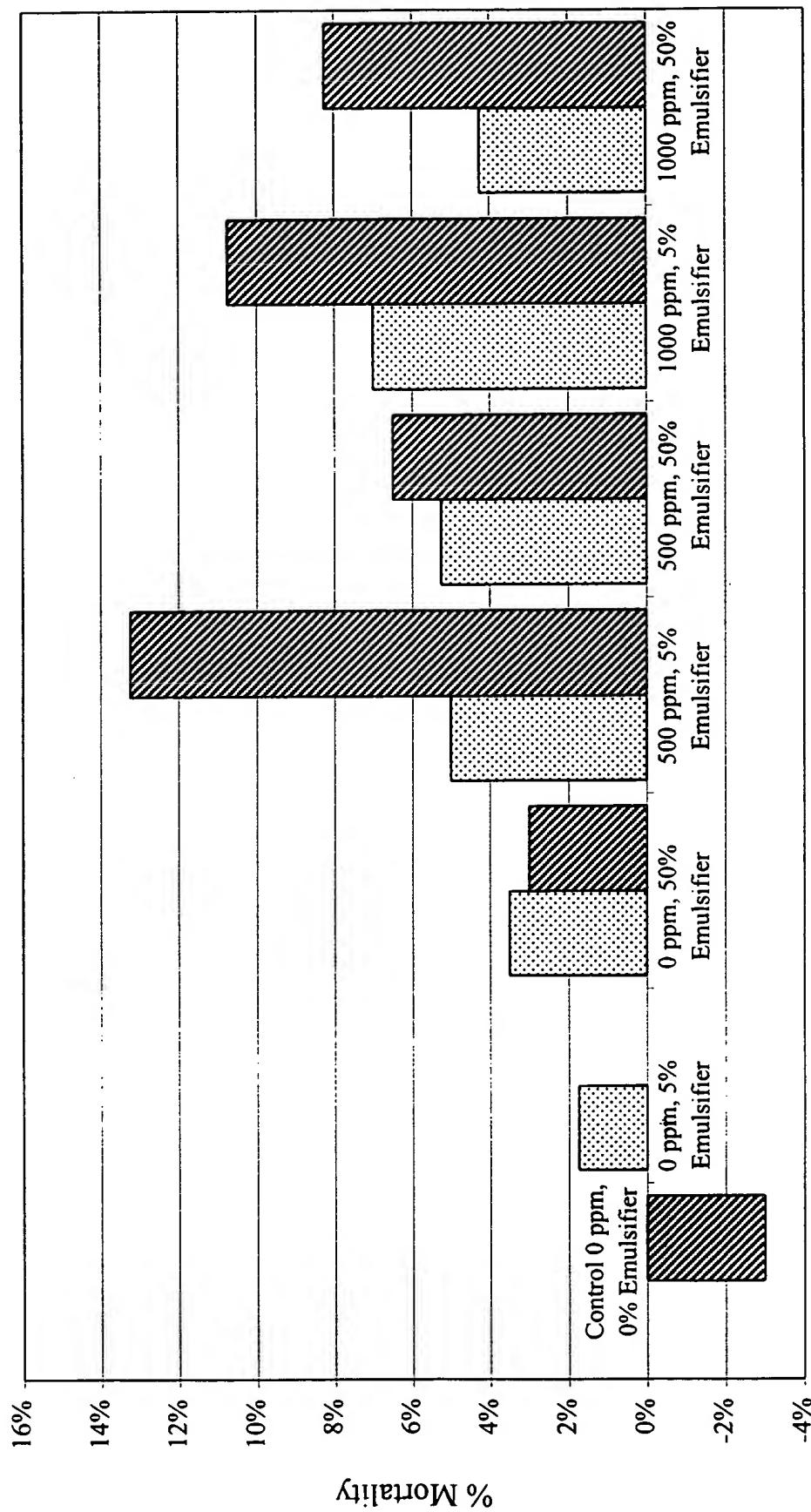


FIG. 6b

Chloropicrin EC - Lab Test for Weed Seed Mortality

WILD MUSTARD

Weed Seed: *Brassica kaber*

Treatment	Seed Germination Counts												(% Mortality)								
	Date of Count = 1/05/1999			Date of Count = 1/05/1999			Elapsed Time from Treatment = 12 Days			1st Count at 8 Days			1st Count at 12 Days			2nd Count at 12 Days			% Mortality Above Control		
	Rep 1	Rep 2	Rep 3	Rep 1	Rep 2	Rep 3	Rep 1	Rep 2	Rep 3	Rep 1	Rep 2	Rep 3	Rep 1	Rep 2	Rep 3	Rep 1	Rep 2	Rep 3	Rep 4		
Seed Age:																					
NEW SEED	Control 0 ppm, 0% Emulsifier	35	38	40	33	60	51	49	54	65%	62%	60%	64%	60%	67%	51%	49%	49%	47%		
NEW SEED	0 ppm, 5% Emulsifier	34	29	32	28	80	78	75	79	65%	71%	68%	72%	69%	70%	20%	22%	25%	0%		
NEW SEED	0 ppm, 50% Emulsifier	28	31	29	32	81	77	70	82	72%	69%	71%	70%	70%	70%	23%	23%	23%	-24%		
NEW SEED	500 ppm, 5% Emulsifier	34	16	35	36	82	72	91	88	66%	84%	65%	64%	70%	18%	9%	12%	17%	-30%		
NEW SEED	500 ppm, 50% Emulsifier	40	26	10	24	83	76	80	85	60%	74%	90%	75%	75%	17%	24%	20%	15%	-28%		
NEW SEED	1000 ppm, 5% Emulsifier	30	31	18	22	81	80	70	76	69%	82%	78%	75%	75%	19%	20%	30%	24%	-23%		
NEW SEED	1000 ppm, 50% Emulsifier	31	11	3	41	36	13	12	41	69%	89%	97%	59%	79%	64%	87%	88%	59%	-28%		
Date of Count = 1/08/1999																					
Elapsed Time from Treatment = 11 Days																					
OLD SEED	Control 0 ppm, 0% Emulsifier	0	1	0	1	0	1	0	1	100%	100%	99%	100%	100%	99%	100%	99%	100%	0%		
OLD SEED	0 ppm, 5% Emulsifier	2	2	2	0	1	2	2	0	1	98%	100%	98%	100%	99%	99%	98%	100%	99%	-1%	
OLD SEED	0 ppm, 50% Emulsifier	1	0	0	1	1	0	0	1	99%	100%	100%	99%	100%	100%	99%	100%	100%	0%		
OLD SEED	500 ppm, 5% Emulsifier	2	0	0	0	2	0	0	0	98%	100%	100%	100%	100%	100%	98%	100%	100%	0%		
OLD SEED	500 ppm, 50% Emulsifier	3	2	3	0	3	2	3	0	97%	98%	97%	100%	100%	100%	98%	100%	100%	-2%		
OLD SEED	1000 ppm, 5% Emulsifier	0	0	0	0	0	0	0	0	100%	100%	100%	100%	100%	100%	100%	100%	100%	0%		
OLD SEED	1000 ppm, 50% Emulsifier	0	0	0	0	0	0	0	0	100%	100%	100%	100%	100%	100%	100%	100%	100%	0%		

NEW SEED

ANOVA: Single Factor

SUMMARY

Groups	Count	Sum	Average	Variance	Groups	Count	Sum	Average	Variance
Row 1	4	1.88	0.465	0.0023	Row 1	4	3.98	0.995	3.3333E-05
Row 2	4	0.88	0.22	0.00466867	Row 2	4	3.98	0.9875	0.1667E-05
Row 3	4	0.9	0.225	0.00286867	Row 3	4	3.98	0.9895	3.3333E-05
Row 4	4	0.67	0.1675	0.007025	Row 4	4	3.98	0.9895	1E-04
Row 5	4	0.76	0.19	0.01533333	Row 5	4	3.92	0.98	0.0002
Row 6	4	0.93	0.2325	0.002491687	Row 6	4	4	1	0
Row 7	4	2.98	0.745	0.02286867	Row 7	4	4	1	0

SIGNIFICANT DIFFERENCE @ 95%

ANOVA	Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	1.0739357	6	0.1789853	31.32012579	1.886E-06	3.8117491	2.372712
Within Groups	0.11925	21	0.0056786			0.000206	0.655E-05
Total	1.1931857	27				0.0002811	27

ANOVA	Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	0.001238	6	0.000206	3.145454545	0.023238	2.372712	
Within Groups	0.001375	21	0.0001375			0.655E-05	
Total	0.002611	27				0.002811	27

FIG. 7a

% Mortality of New Weed Seeds Over Control Wild Mustard

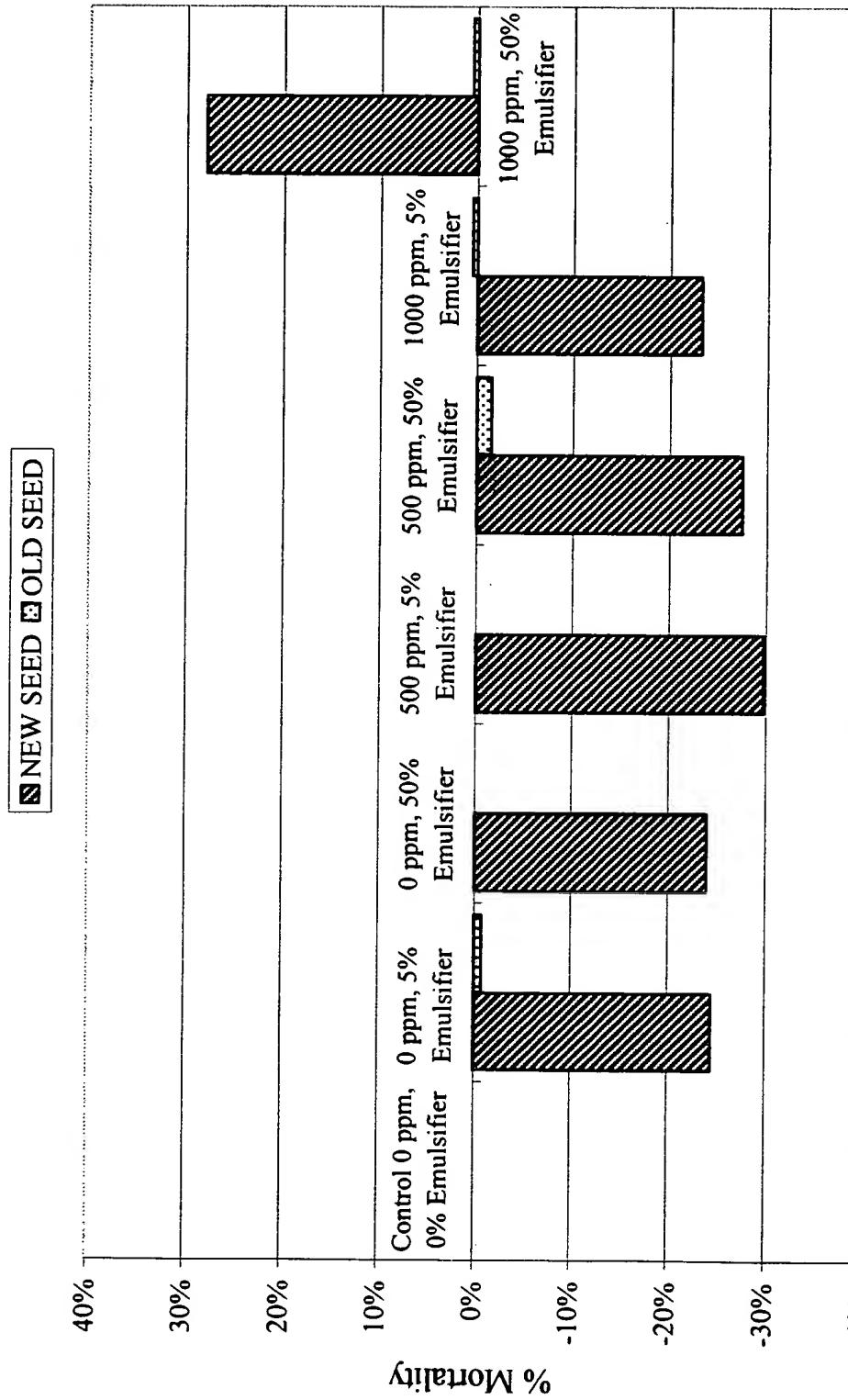


FIG. 7b

Treatment

Chloropicrin EC - Lab Tests for Weed Seed Mortality
 YELLOW
 NUTGRASS
 Weed Seed: *Cyperus esculentus*

Treatment	Treatment Solution	Seed Germination Counts				1st Count at 8 Days				1st Count at 12 Days				2nd Count at 8 Days				2nd Count at 12 Days				% Mortality	
		Date of Count = 11/05/1999	Elapsed Time from Treatment = 8 Days	Date of Count = 11/09/1999	Elapsed Time from Treatment = 12 Days	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	% Mortality	% Mortality
Seed Age																							
NEW SEED	Control 0 ppm, 0% Emulsifier	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEW SEED	0 ppm, 5% Emulsifier	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEW SEED	0 ppm, 50% Emulsifier	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEW SEED	500 ppm, 5% Emulsifier	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEW SEED	500 ppm, 50% Emulsifier	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEW SEED	1000 ppm, 5% Emulsifier	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEW SEED	1000 ppm, 50% Emulsifier	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLD SEED	Control 0 ppm, 0% Emulsifier	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLD SEED	0 ppm, 5% Emulsifier	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLD SEED	0 ppm, 50% Emulsifier	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLD SEED	500 ppm, 5% Emulsifier	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLD SEED	500 ppm, 50% Emulsifier	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLD SEED	1000 ppm, 5% Emulsifier	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OLD SEED	1000 ppm, 50% Emulsifier	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NEW SEED
 Anova: Single Factor

No Significance

OLD SEED
 No Significance

ANOVA

Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	0.0005829	6	0.981E-05	0.98486838776	0.5484524	2.5727116
Within Groups	0.00245	21	0.0001167			
Total	0.0030429	27				

FIG. 8a

**% Mortality of New Weed Seeds Over Control
Yellow Nutgrass**

■ NEW SEED ■ OLD SEED

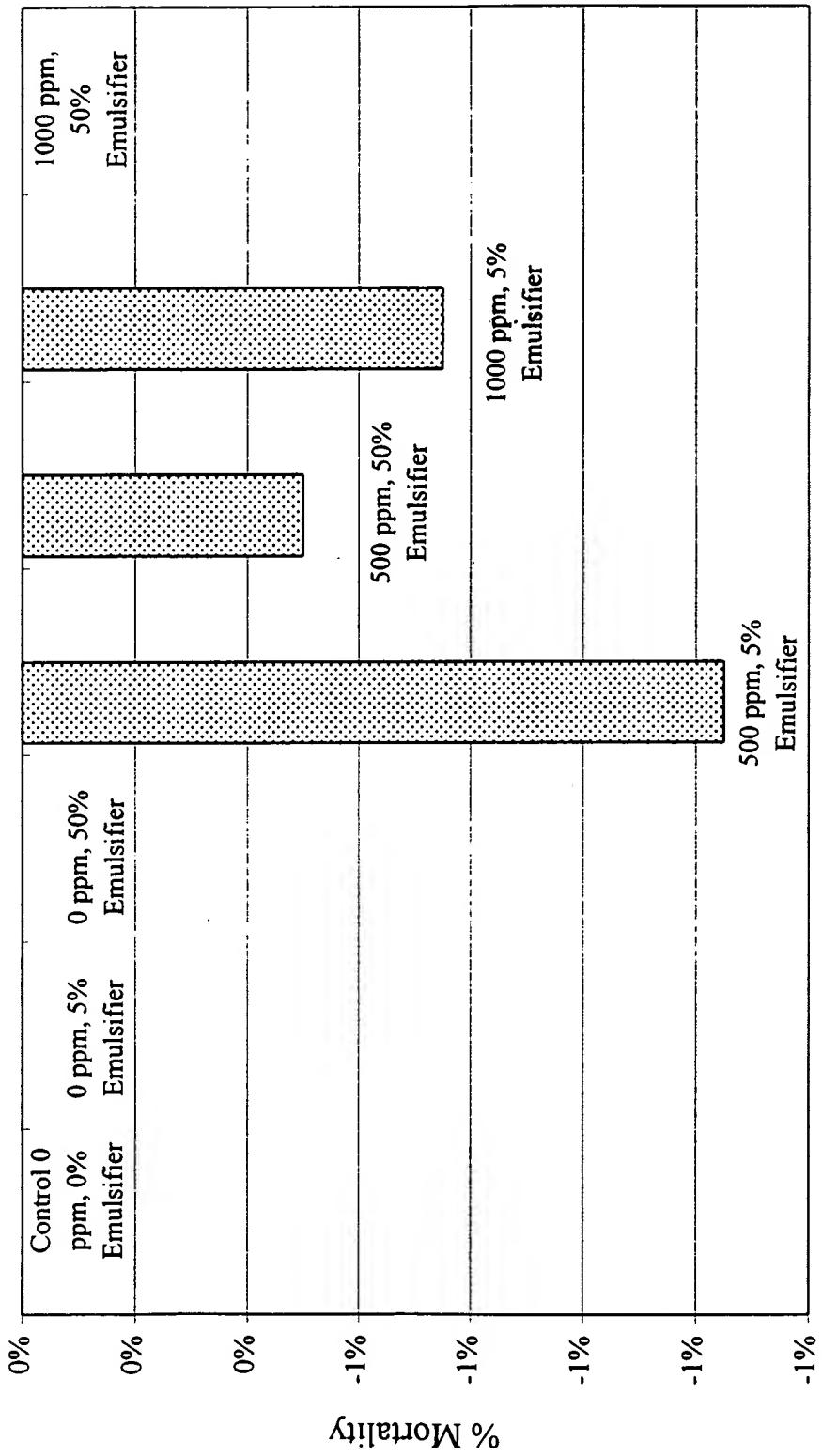


FIG. 8b

Treatment

% Mortality of New Weed Seeds Over Control

Barnyard Grass

■ NEW SEED □ OLD SEED

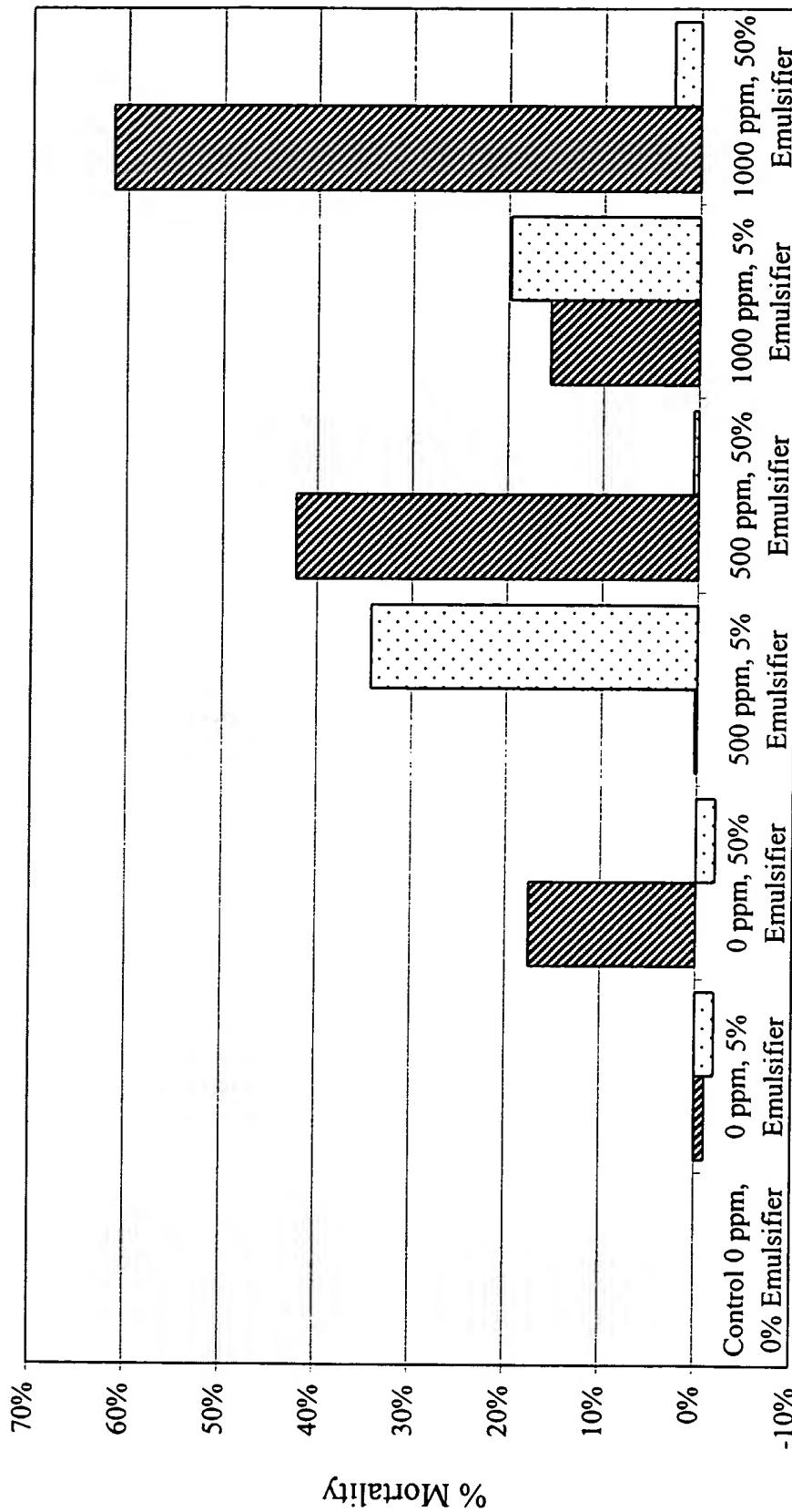


FIG. 10b

Chloropicrin EC - Lab Tests for Weed Seed Mortality
 YELLOW SWEET
 CLOVER

NEW SEED
 Anova: Single Factor

		Treatment Date = 10/26/1999				Number of Seeds/Dish = 100				(% Mortality)			
		Date of Count = 11/05/1999		Date of Count = 11/09/1999		Elapsed Time from Treatment = 12 Days		Elapsed Time from Treatment = 12 Days		Elapsed Time from Treatment = 11 Days		Elapsed Time from Treatment = 11 Days	
Seed Age	Treatment	Seed Germination Counts				(% Mortality)				(% Mortality)			
		Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4	Rep 1	Rep 2	Rep 3	Rep 4
NEW SEED	Control 0 ppm. 0% Emulsifier	15	8	10	8	22	10	10	8	85%	92%	92%	90%
NEW SEED	0 ppm., 5% Emulsifier	12	17	14	5	14	18	17	7	88%	83%	86%	86%
NEW SEED	0 ppm., 50% Emulsifier	28	24	23	20	29	33	30	20	72%	76%	80%	67%
NEW SEED	500 ppm., 5% Emulsifier	25	5	0	8	25	5	0	8	75%	95%	91%	75%
NEW SEED	500 ppm., 50% Emulsifier	5	2	3	2	5	2	3	2	95%	98%	97%	95%
NEW SEED	1000 ppm., 5% Emulsifier	1	11	0	4	1	11	0	4	99%	89%	96%	99%
NEW SEED	1000 ppm., 50% Emulsifier	3	0	0	0	3	0	0	0	97%	100%	100%	99%
		Date of Count = 11/08/1999				(% Mortality)				(% Mortality)			
OLD SEED	Control 0 ppm. 0% Emulsifier	4	3	3	4	4	3	4	3	96%	97%	96%	97%
OLD SEED	0 ppm., 5% Emulsifier	7	12	12	7	7	12	7	12	93%	88%	93%	88%
OLD SEED	0 ppm., 50% Emulsifier	3	1	2	3	3	1	3	7	97%	99%	98%	97%
OLD SEED	500 ppm., 5% Emulsifier	0	0	0	0	0	0	0	0	100%	100%	100%	100%
OLD SEED	500 ppm., 50% Emulsifier	1	0	12	0	1	0	12	0	99%	100%	97%	100%
OLD SEED	1000 ppm., 5% Emulsifier	0	0	0	0	3	3	5	0	100%	100%	100%	97%
OLD SEED	1000 ppm., 50% Emulsifier	0	0	0	0	0	0	0	0	100%	100%	100%	100%

SIGNIFICANT DIFFERENCE @ 99%

ANOVA
 Anova: Single Factor

OLD SEED

Anova: Single Factor

SUMMARY

Groups	Count	Sum	Average	Variance
Row 1	4	3.5	0.875	0.0041
Row 2	4	3.44	0.86	0.00248667
Row 3	4	2.88	0.72	0.00313333
Row 4	4	3.62	0.905	0.01176667
Row 5	4	3.88	0.97	0.0002
Row 6	4	3.84	0.96	0.00248667
Row 7	4	3.87	0.9625	0.000225

ANOVA
 Source of Variation SS df MS F F crit P-value F crit

Between Groups	0.20685	6	0.034417	9.68970763	3.156E-05	3.811761	0.000337	5.281931164	0.001861
Within Groups	0.073075	21	0.0034798				0.01605	21	0.000764
Total	0.279925	27					Total	0.040271	27

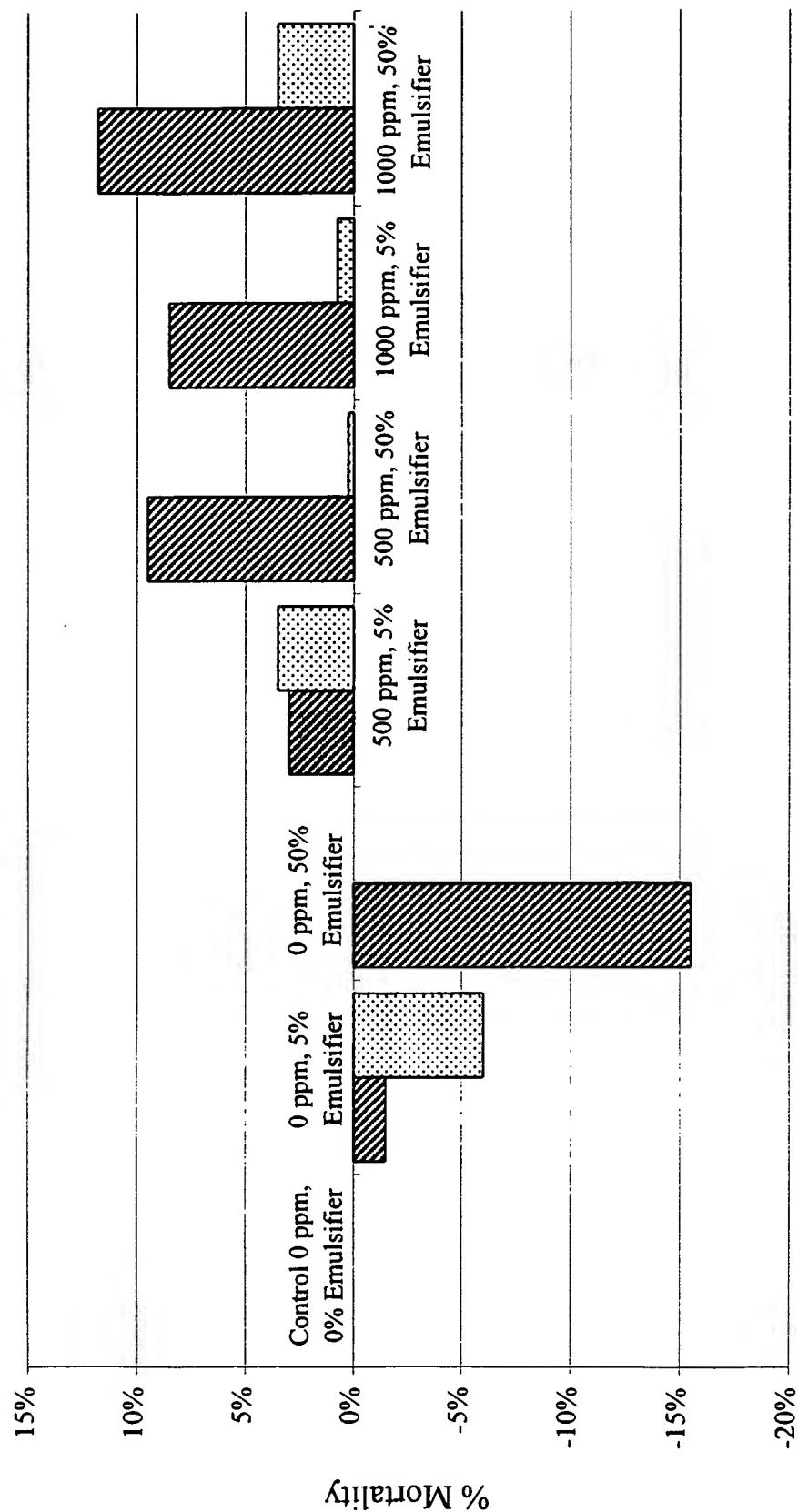
ANOVA	Source of Variation	SS	df	MS	F	P-value	F crit
Between	Row 1	1	1	3.86	0.865	3.333333333	
Within	Row 2	1	1	3.62	0.905	0.0006333333	
Groups	Row 3	1	1	3.88	0.865	0.0006333333	
Groups	Row 4	1	1	3.87	0.97	0	
Groups	Row 5	1	1	3.87	0.9675	0.003425	
Groups	Row 6	1	1	3.89	0.9725	0.000425	
Groups	Row 7	1	1	3.89	0.97	0	

ANOVA	Source of Variation	SS	df	MS	F	P-value	F crit
Between	Row 1	1	1	3.86	0.865	3.333333333	
Within	Row 2	1	1	3.62	0.905	0.0006333333	
Groups	Row 3	1	1	3.88	0.865	0.0006333333	
Groups	Row 4	1	1	3.87	0.97	0	
Groups	Row 5	1	1	3.87	0.9675	0.003425	
Groups	Row 6	1	1	3.89	0.9725	0.000425	
Groups	Row 7	1	1	3.89	0.97	0	

FIG. 9a

% Mortality of New Weed Seeds Over Control
Yellow Sweet Clover

■ NEW SEED ▨ OLD SEED



Treatment
FIG. 9b

Chloropicrin EC - Lab Tests for Weed Seed Mortality
BINDWEED
Weed Seed: *Convolvulus arvensis*

		Treatment Date = 10/28/1999		Number of Seeds/Dish = 100		(% Mortality)															
		Date of Count = 11/03/1999		Date of Count = 11/09/1999		2nd Count at 12 Days															
		Elapsed Time from Treatment = 8 Days		Elapsed Time from Treatment = 12 Days		1st Count				2nd Count				1st Count at 8 Days				2nd Count at 12 Days			
Treatment	Treatment Solution	Rcp 1	Rcp 2	Rcp 3	Rcp 4	Rcp 1	Rcp 2	Rcp 3	Rcp 4	Rcp 1	Rcp 2	Rcp 3	Rcp 4	Rcp 1	Rcp 2	Rcp 3	Rcp 4	Rcp 1	Rcp 2		
Seed Age																					
NEW SEED	Control 0 ppm. 0% Emulsifier	15	20	23	28	80	84	83	78	85%	80%	77%	72%	79%	20%	16%	17%	22%	19%		
NEW SEED	0 ppm. 5% Emulsifier	16	22	23	14	29	29	27	18	84%	78%	77%	86%	81%	71%	71%	73%	82%	82%		
NEW SEED	0 ppm. 50% Emulsifier	19	15	15	16	51	63	55	65	81%	85%	85%	84%	84%	49%	37%	45%	35%	42%		
NEW SEED	500 ppm. 3% Emulsifier	12	16	14	7	54	63	55	65	88%	88%	86%	93%	88%	46%	37%	45%	35%	41%		
NEW SEED	500 ppm. 50% Emulsifier	25	13	22	17	62	13	74	56	75%	87%	78%	83%	81%	38%	87%	26%	44%	49%		
NEW SEED	1000 ppm. 3% Emulsifier	8	15	5	12	14	20	10	16	92%	83%	95%	88%	90%	86%	80%	90%	84%	85%		
NEW SEED	1000 ppm. 50% Emulsifier	5	8	3	4	7	15	7	10	95%	92%	97%	96%	93%	93%	93%	90%	90%	78%		
OLD SEED	Control 0 ppm. 0% Emulsifier																				
OLD SEED	0 ppm. 5% Emulsifier																				
OLD SEED	0 ppm. 50% Emulsifier																				
OLD SEED	500 ppm. 3% Emulsifier																				
OLD SEED	500 ppm. 50% Emulsifier																				
OLD SEED	1000 ppm. 3% Emulsifier																				
OLD SEED	1000 ppm. 50% Emulsifier																				

NEW SEED
Anova: Single Factor

SIGNIFICANT DIFFERENCE @ 99%

SUMMARY	Groups	Count	Sum	Average	Variance
Row 1	4	0.75	0.1875	0.00075833	
Row 2	4	2.97	0.7425	0.00275833	
Row 3	4	1.86	0.465	0.00439867	
Row 4	4	1.85	0.4625	0.004006167	
Row 5	4	1.95	0.4875	0.070825	
Row 6	4	3.4	0.85	0.0173333	
Row 7	4	3.61	0.9025	0.01425	

ANOVA	Source of Variation	SS	df	MS	F	P-value	F crit
Between Groups	1.6890214	6	0.2815038	23.2487464	2.586E-08	3.8117491	
Within Groups	0.254275	21	0.0121083				
Total	1.9432984	27					

FIG. 11a

% Mortality of New Weed Seeds Over Control
Bindweed

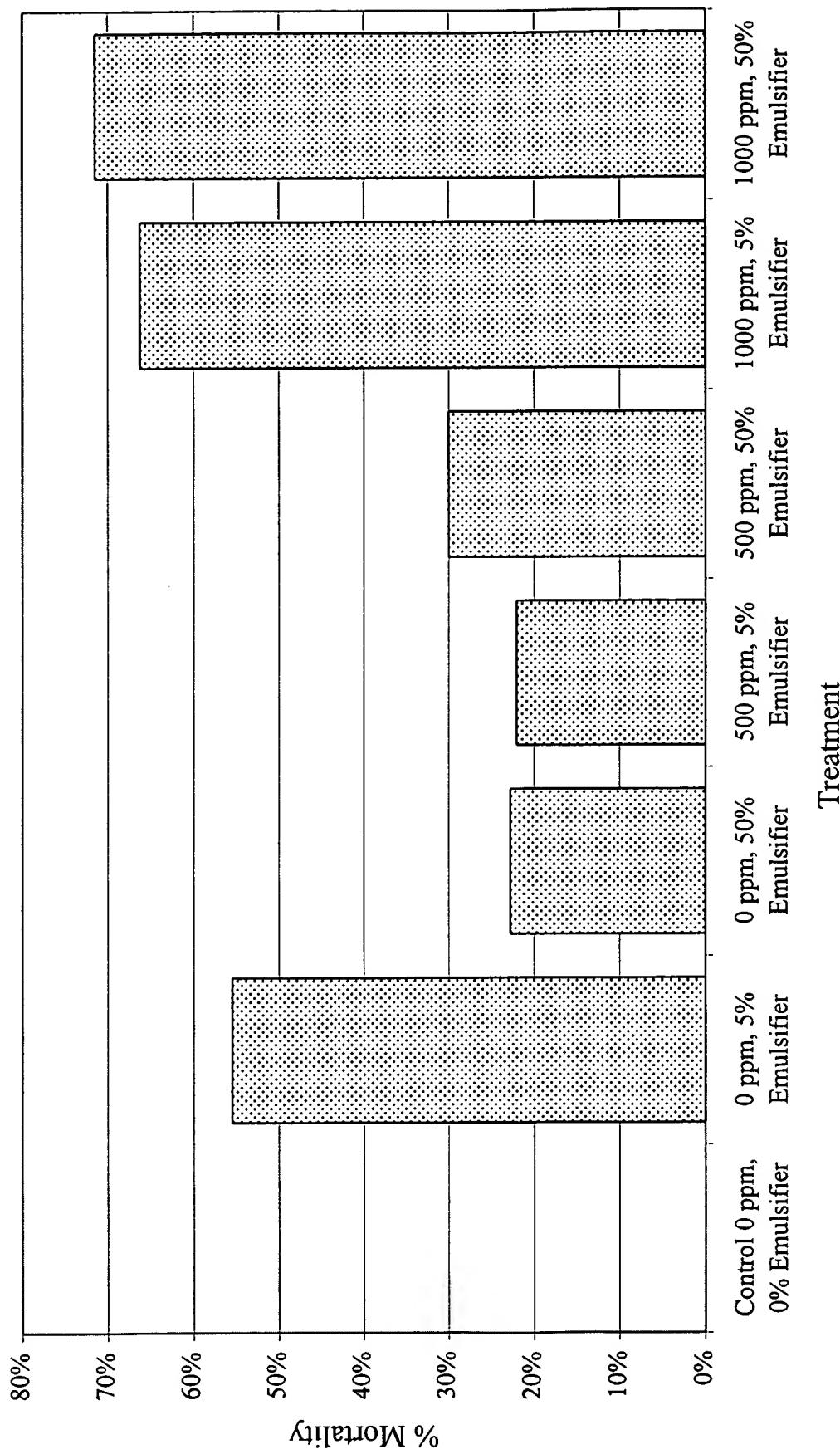


FIG. 11b